

## GP329 & GP339 Specifications

### GENERAL -VHF, UHF

*Frequency:	136-174 / 403-470 / 450-527		
Channel Capacity:	GP329 is 16 Channels	GP339 is 255 Channels	
Power Supply:	Provided through rechargeable battery - 7.5V		
DIMENSIONS:	H	W	D (Radio footprint height excluding knobs)
With Standard High Capacity NiMH Battery:	137mm	57.5mm	37.5mm
With Ultra High Capacity NiMH Battery:	137mm	57.5mm	40.0mm
With NiCD Battery:	137mm	57.5mm	40.0mm
With Lilon Battery:	137mm	57.5mm	33.0mm
WEIGHT:	GP329	GP339	
With Standard High Capacity NiMH Battery:	420 gm	428 gm	
With Ultra High Capacity NiMH Battery:	500 gm	508 gm	
With NiCD Battery:	450 gm	458 gm	
With Lilon Battery:	350 gm	358 gm	
AVERAGE BATTERY LIFE @ 5/5/90 CYCLE	Low Power	High Power	
With Standard High Capacity NiMH Battery:	11 hours	8 hours	
With Ultra High Capacity NiMH Battery:	14 hours	11 hours	
With NiCD Battery:	12 hours	9 hours	
With Lilon Battery:	11 hours	8 hours	
Sealing:	Withstands rain testing per MIL STD 810 C/D / E and IP54		
Shock and Vibration:	Protection provided via impact resistant housing exceeding MIL STD 810-C/D / E and TIA/EIA 603		
Dust and Humidity:	Protection provided via environment resistant housing exceeding MIL STD 810 C/D / E and TIA/EIA603		

TRANSMITTER		RECEIVER	
SPECIFICATION	VHF/UHF	SPECIFICATION	VHF/ UHF
*Frequency	136-174 / 403-470 / 450-527	*Frequency	136-174 / 403-470 / 450-527
Frequency separation	Full bandsplit	Frequency separation	Full bandsplit
Channel spacing	12.5/20/25kHz	Sensitivity (12dB SINAD)EIA	25µV
Freq Stability(-30°C to 60°C,+25°CRef.)	+/- 0.00025%	Intermodulation(EIA)	70 dB
Power	5W - 136 -174 4W - 403-470	Adjacent Channel Selectivity	60 dB @ 12.5kHz/70dB @ 25kHz
Modulation limiting	±2.5 @ 12.5kHz±4.0 @ 20kHz±5.0 @ 25kHz	Spurious Rejection	70 dB
FM Hum & Noise	-40 dB	Rated Audio	500 mW
Conducted/Radiated Emission	-66 dBw	Audio Distortion	3%
Modulation FCC Type	12.5 kHz 11K0F3E 25 kHz 16K0F3E	Hum and Noise	-45 dB @ 12.5kHz, -50 dB @ 25kHz
Audio Response ( from 6 dB/octave pre-emphasis 300-3000Hz)	+1 to -3 dB	Audio Response(300-3000Hz)	+1 to -3dB
Audio Distortion	3%	Conducted Spurious Emission	-57dBm < 1Ghz/-47dBm > 1Ghz/FCC Part 15

\* Availability subject to country law and regulations / Specifications subject to change without notice.  
All specifications shown are typical. Radios meet applicable regulatory requirements.

### Portable Military Standards 810 C, D, & E

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temp	501.1	1, 2	501.2	1, 2	501.3	1, 2
Low Temp	502.1	1	502.2	1, 2	502.3	1, 2
Temp. Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1, 2	506.2	1, 2	506.3	1, 2
Humidity	507.1	2	507.2	2, 3	507.3	2, 3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	8, 10	514.3	1	514.4	1
Shock	516.2	1, 2, 5	516.3	1, 4	516.4	1, 4

### Accessorise and enhance your radio's capabilities

A comprehensive range of accessories is available so that Motorola's GP Professional Radio series for Select V can be customised to suit your unique applications. Boost your productivity today by adding the proper headsets, microphones, batteries, chargers or carry cases.

Motorola accessories are built with the highest quality standards and are specially engineered to ensure maximum performance for your radio, no matter what profession you're in.

### Key Accessoires:



Transformer



Antenna



Rapid-rate Desktop Charger



Battery & Belt Clip



Carry Case



Remote Speaker Microphone



TWO-WAY RADIOS

contact



control



GP329  
GP Series Select V  
GP339  
Portable Radios

**MOTOROLA**  
Commercial, Government and  
Industrial Solutions Sector

For more information, please contact:



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The Power Tool For Contact & Control

Professional Radio

# GP Professional Radio Series for Select V

## The communication solution for all your needs

Effective communication is the cornerstone for success in any organisation.

With Motorola's GP Professional Radio series for Select V - the GP329 and GP339 portable radios, in your communication solution, enhanced productivity and operational success are only a push of a button away.

You can now enjoy instantaneous contact with your work teams, ensuring always that productivity and efficiency levels of your operations are kept high.

The GP Professional Radio series for Select V is compatible with Private-Line and 5-tone Selective signalling protocols.

### Key Features

#### Clean Crisp Audio Quality

Sound quality is critical for effective communications. The GP Professional Radio series for Select V is specially equipped with Motorola's voice compression and expansion technology called X-PAND™. The X-PAND™ feature enables crisper, clearer and stronger audio quality, allowing users to continue communicating even in noisy conditions. In addition, low-level expansion enables further improvements in audio quality by reducing unwanted background noise usually heard during pauses in conversation.

#### Programmable Channel Spacing (12.5/20/25 kHz)

The series allows programmable channel spacing of 12.5/20/25 kHz; offering flexibility and easy migration of channel spacing requirements when the need arises.

#### Option Board Expandability

Existing capabilities offered by the GP Professional Radio series can be expanded by including one of the following option boards:

- Encryption for message security.
- Voice Storage board that allows users to store, retrieve and delete voice messages easily.

#### Lithium Ion Battery Option

Accompanied with the latest technology in battery chemistry, Motorola's GP series offers a Lithium Ion

battery option which provides the same talk time at a lighter weight.

#### Lone Worker

Customised to meet your specific needs, this feature provides added security and safety for individuals who work remotely from their team as well as for those who work in hazardous conditions. The radio provides continued normal operations when the buttons are pressed regularly but will sound a warning signal if there's no response after a pre-determined time lapse. Should there be no further response, the radio automatically makes an emergency call.

#### Whisper

The radio microphone's sensitivity is increased, allowing users to speak quietly into a radio while still being heard clearly over the air.

#### Stun/Unstun

Provides an added security to prevent the abuse of the radio system and can only be activated by the system manager or administrator. In the event a radio is stolen or used illegally, the system administrator can send a signal to stun the radio, making it incapable for use. Conversely, the radio can be returned to operational use by sending an unstun signal or by returning the radio for reprogramming.

### GP329 – YOUR EASY-TO-USE & COST EFFECTIVE SOLUTION

The GP329 radio offers a practical two-way radio solution for professionals who need a rugged, reliable radio to stay in contact. Equipped with user-friendly features and intuitive programmable buttons for easy navigation, the GP329 increases productivity by streamlining your radio use and enabling you to concentrate on the job at hand.

With X-PAND™, the GP329 assures you of crisp, clear audio quality even in the noisiest conditions. It also offers 16 channels in addition to a basic array of signalling capabilities. With adjustable power levels, you always have control over your radio usage. Moreover, with an LED indicator and an alert to notify you when your battery power is running low, you'll never be caught with dead air, especially during mission-critical situations or emergencies.

### The GP329 radio – it's easy communication at your finger tips.

### GP339 – YOUR VERSATILE COMMUNICATION COMPANION

The GP339 is vital for growing organisations due to its wide range of versatile offerings and its ability to accommodate 255 different communication channels. No matter where it is used, in the rugged environment of the construction site or in the posh elegance of a hotel, the GP339 ensures world-class reliability and efficiency that is very much associated with Motorola's series of professional radios.

Like the GP329, the GP339 offers superb audio clarity through the X-PAND™ feature. The GP339 can store commonly-used contact lists and up to 100 individual caller-IDs and phone numbers for

immediate access. Time-conscious users can also rely on programmable buttons for key features and the call timer feature for efficient management of airtime.

### The GP339 radio – adaptability at your command.

#### GP329 and GP339 – serving your communication needs

##### Signalling

The radio software encompasses Private Line and 5-tone Selective signalling.

##### Channel Scan

Enables activity on different communications channels to be monitored and answered - eliminating the incidence of missed calls as well as simplifying the radio's operation for users of multiple communication channels.

##### Battery Strength Indicator

For early warning on low battery strength, the GP329 is equipped with a tri-colour LED battery gauge; the GP339 has an on-screen LCD display indicator.

##### Voice-Operated Transmit (VOX)

Hands-free operation with voice activated transmission via headsets.

##### Adjustable Power Levels

Optimises coverage and conserves battery consumption.

##### Talkaround

Freedom to communicate via a repeater for wide area coverage; or bypass a repeater and talk directly to another unit for easy local unit-to-unit communications. Ideal for maintaining continued communications in the event of system failure or maintenance.

##### Call Forward

Incoming calls can be forwarded to another radio user – enabling continued communication for the operations.

##### Additional benefits for GP339 – enhancing your communication versatility

##### User Information Display

Easy to read 14-character alpha-numeric dot matrix text display.

##### Name Tagging

Capable of assigning visual caller-ID to 8 specific users/talkgroups.

##### Contact List

Enables users to access up to 100 pre-programmed numbers; displayed either in alphabetic or numeric formats. A total of nine tones can be tagged to the pre-programmed numbers providing caller - identification.

##### Status Calls

Pre-defined text messages can be tagged to code digits in the Status list enabling users to send meaningful messages quickly without the need to talk. The status list is for both incoming and outgoing calls.

##### Call Timer

Enforces the efficient use of airtime by limiting the duration of calls. Callers are given warning indications (visual and audio), prior to the call ending.

##### Dual Tone Multi Frequency (DTMF)

Activated when the radio is required to operate in a radio system as well as link up with a telephone network.

##### Menu

Users can select functions through easy to navigate menu keys.

GP339



GP329



##### Keypad Lock/Unlock

Keypad keys and menu keys can be locked to eliminate accidental key presses and to deter non-users from tampering with the radio.

##### Backlight

Enhanced ease of use in subdued light by illuminating the radio display, keypad and menu navigation keys - programmable to be permanently switched on, off or switched on for a timed period.

##### Two-Year Warranty

Each Motorola radio is backed by a two-year warranty on radio parts and labour (one year warranty on the battery, charger, antenna and belt clip).



#### Motorola: Reliability & Quality



**Accelerated Life Testing**  
Stringent Motorola's Accelerated Life Testing simulating five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



**MIL-STD 810C, D and E**  
Stamp of approval from the U.S. Military for use in rough environments.



**ISO 9001 Standard**  
Compliance with ISO 9001 Standard - an international quality system assurance on design, development, production, installation and servicing of a product.